

ABSTRACT OF THE DISCLOSURE

A light-emitting material of the present invention includes diplophase compound that is expressed in the following general formula: $(\text{Sr}, \text{Eu}, \text{Dy})_{0.95 \pm x} (\text{Al}, \text{B})_{203.95 \pm x} \cdot (\text{Sr}, \text{Eu}, \text{Dy})_{4-x} (\text{Al}, \text{B})_{14} \text{O}_{25-x}$ (in the formula, $x=0.01$ to 0.1 , a content of B element is 0.2 to 1.0 % by weight, a content of Eu is 0.5 to 3.0 % by weight and a content of Dy is 0.1 to 3.0 % by weight). A producing method of a light-emitting material of the present invention comprises (1) step for measuring previously pulverized raw materials, and mixing them to obtain a mixture of raw material, (2) step for putting the mixture into a container, heating the mixture from 850°C to 1200°C for three hours under a reduction condition, keeping the temperature for five to six hours, thereby obtaining a sintered body, (3) step for stopping the heating operation and cooling the sintered body nature down to a room temperature, and (4) step for pulverizing the sintered body to obtain a product. In the step (2), reduction is carried out using carbon powder.